

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636798

Luminaire Tested: GWS-SA4B-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14714.5 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

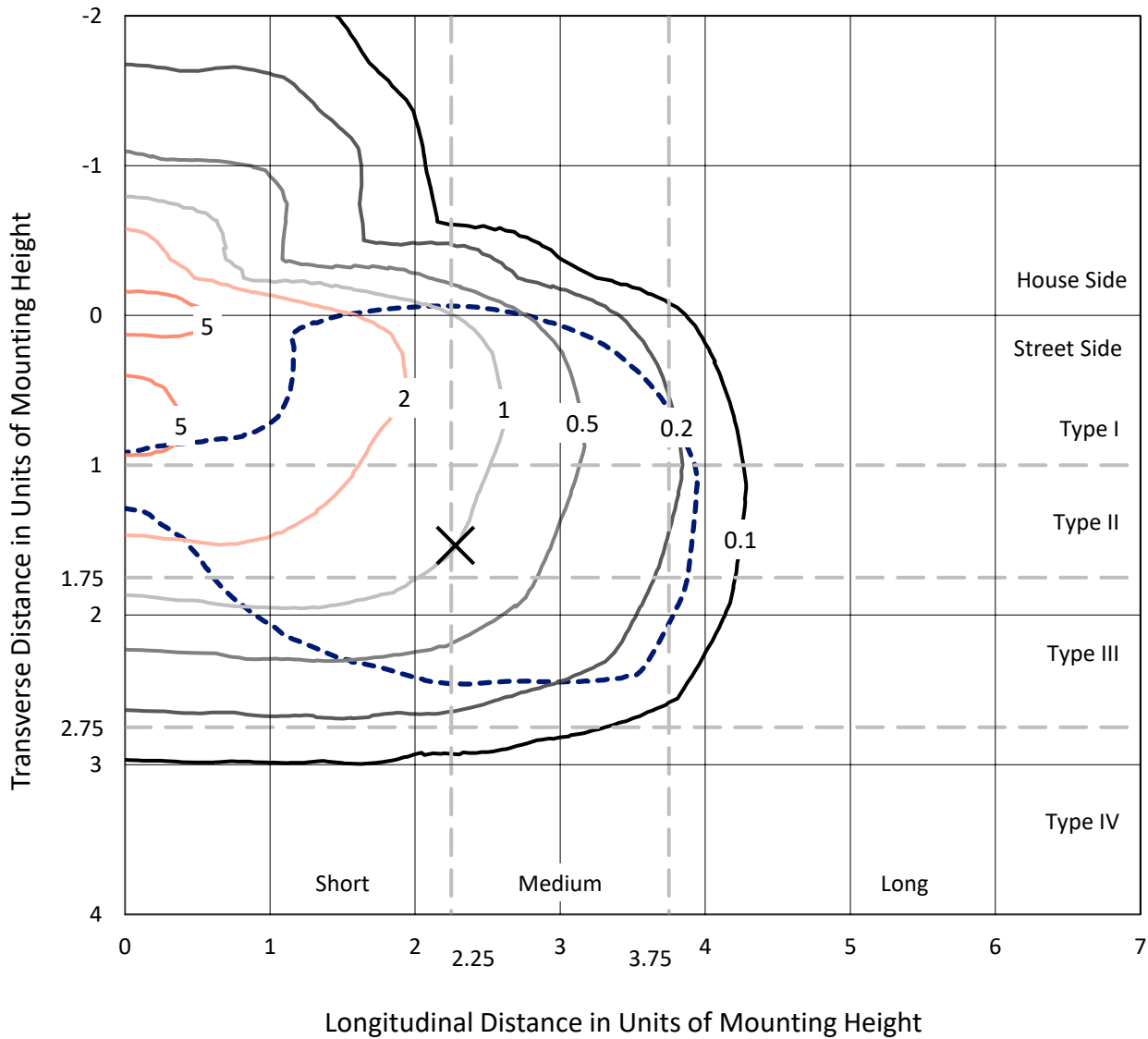
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636798
 CATALOG NUMBER: GWS-SA4B-740-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

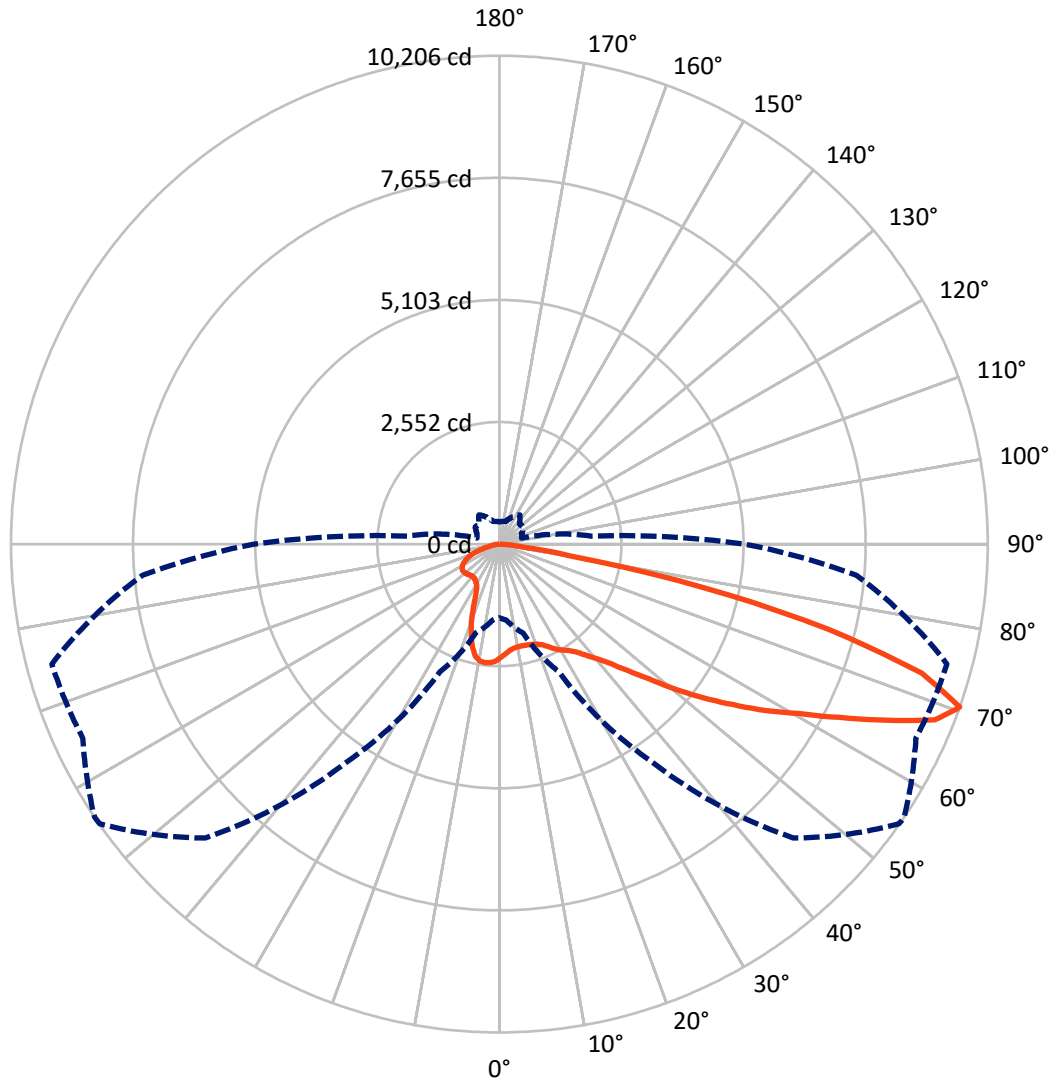
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P636798
CATALOG NUMBER: GWS-SA4B-740-U-T3R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P636798

CATALOG NUMBER: GWS-SA4B-740-U-T3R-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2828.9	0.0	2828.9
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	11885.6	0.0	11885.6
	% Fixture	80.8	0.0	80.8
Total	Lumens	14714.5	0.0	14714.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.5
10°-20°	595.5	4.0
20°-30°	984.6	6.7
30°-40°	1472.1	10.0
40°-50°	2190.7	14.9
50°-60°	3114.5	21.2
60°-70°	3857.4	26.2
70°-80°	2129.9	14.5
80°-90°	150.0	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14714.5	100.0
0°-180°	14714.5	100.0

Coefficient of Utilization



REPORT NUMBER: P636798

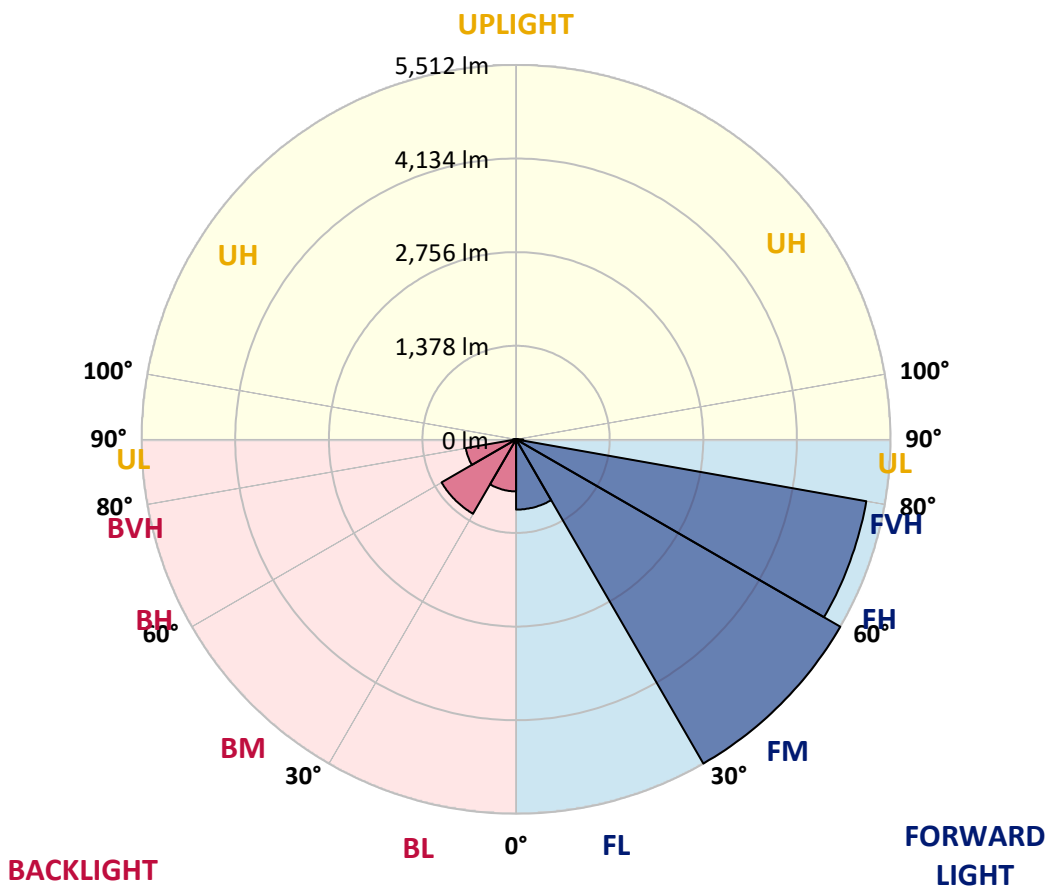
CATALOG NUMBER: GWS-SA4B-740-U-T3R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.1	7.0			
FM (30°-60°)	5511.8	37.5			
FH (60°-80°)	5235.4	35.6			G3/7500
FVH (80°-90°)	104.2	0.7			G2/225
BL (0°-30°)	765.8	5.2	B2/1000		
BM (30°-60°)	1265.4	8.6	B2/2500		
BH (60°-80°)	751.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	45.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P636798
 CATALOG NUMBER: GWS-SA4B-740-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1
2.5°	2222.6	2210.2	2224.7	2232.0	2250.6	2277.6	2301.5	2302.5	2315.0	2345.1	2374.1
5°	2122.0	2115.7	2119.9	2141.7	2161.4	2195.6	2232.0	2235.1	2270.3	2329.5	2387.6
7.5°	2044.1	2035.8	2051.4	2079.4	2104.3	2142.7	2190.4	2194.6	2244.4	2333.6	2422.9
10°	1932.1	1925.9	1954.9	1992.3	2046.2	2109.5	2172.8	2178.0	2243.4	2360.6	2485.1
12.5°	1883.3	1883.3	1895.8	1931.0	1990.2	2074.2	2169.7	2178.0	2260.0	2402.1	2565.0
15°	1959.1	1964.2	1953.9	1951.8	1975.7	2055.6	2173.8	2186.3	2291.1	2444.7	2643.9
17.5°	2111.6	2116.8	2089.8	2047.3	2023.4	2073.2	2189.4	2202.9	2324.3	2491.4	2729.0
20°	2325.3	2331.6	2272.4	2207.0	2125.1	2124.0	2219.5	2232.0	2366.8	2542.2	2819.3
22.5°	2575.4	2579.6	2504.9	2401.1	2275.5	2218.5	2271.4	2283.8	2421.8	2612.8	2916.8
25°	2864.9	2877.4	2787.1	2636.6	2466.5	2348.2	2357.5	2372.0	2520.4	2707.2	3032.0
27.5°	3174.1	3189.7	3085.9	2919.9	2685.4	2491.4	2468.5	2481.0	2625.2	2765.3	3093.2
30°	3490.6	3502.0	3398.3	3208.4	2920.9	2653.2	2561.9	2569.2	2670.9	2793.3	3155.4
32.5°	3842.4	3833.0	3733.4	3514.5	3192.8	2847.3	2649.1	2647.0	2721.7	2849.3	3244.7
35°	4172.3	4185.8	4080.0	3838.2	3491.6	3087.0	2779.8	2771.5	2829.6	2940.7	3370.2
37.5°	4571.8	4567.7	4441.1	4179.6	3791.5	3316.3	2963.5	2949.0	2969.7	3082.8	3545.6
40°	4857.2	4886.2	4804.3	4560.4	4142.2	3598.5	3178.3	3146.1	3151.3	3258.2	3780.1
42.5°	5090.6	5117.6	5125.9	4970.3	4543.8	3947.2	3446.0	3413.8	3416.9	3568.4	4068.6
45°	5270.1	5306.5	5423.7	5378.1	4996.2	4349.8	3808.1	3774.9	3777.0	3945.1	4417.2
47.5°	5343.8	5383.3	5620.9	5729.8	5476.6	4831.2	4258.5	4209.7	4216.9	4402.7	4815.7
50°	5320.0	5372.9	5694.5	6000.6	5879.2	5321.0	4797.0	4762.7	4734.7	5004.5	5248.4
52.5°	5114.5	5172.6	5687.3	6172.9	6208.2	5783.8	5353.2	5333.4	5327.2	5643.7	5731.9
55°	4509.6	4607.1	5437.2	6218.5	6465.5	6219.6	5956.0	5922.8	5955.0	6328.5	6220.6
57.5°	4174.4	4247.0	4947.4	6167.7	6676.1	6634.6	6557.9	6561.0	6597.3	7072.5	6813.1
60°	3983.5	4068.6	4675.6	6028.7	6878.5	7138.9	7187.7	7187.7	7253.1	7874.6	7414.9
62.5°	3730.3	3816.4	4421.4	5760.9	7065.3	7732.5	7979.4	7976.3	8002.2	8734.8	8003.3
65°	3216.7	3296.6	3910.8	5338.6	7156.6	8386.2	8879.0	8869.7	8817.8	9500.6	8392.4
67.5°	2335.7	2411.5	2995.7	4535.5	6827.6	8913.3	9805.7	9809.8	9499.5	9983.1	8413.1
70°	1539.9	1591.7	1925.9	2945.8	5552.4	8686.0	10193.7	10206.2	9604.3	9682.2	7487.6
72.5°	960.9	997.2	1202.6	1756.7	3281.0	6875.4	9197.6	9231.8	8640.4	8508.6	6152.1
75°	638.1	663.0	800.0	1024.1	1518.1	3721.0	6991.6	7101.6	6925.2	6669.9	4286.5
77.5°	383.9	404.7	509.5	650.6	672.4	1453.7	4081.0	4365.3	4390.2	3482.3	1795.1
80°	175.4	199.2	281.2	371.5	358.0	506.4	1439.2	1505.6	1776.4	1106.1	566.5
82.5°	103.8	114.1	186.8	184.7	152.5	245.9	517.8	531.3	451.4	404.7	241.8
85°	41.5	48.8	78.9	69.5	56.0	79.9	195.1	204.4	196.1	176.4	89.2
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	17.6	18.7	27.0	48.8	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636798
 CATALOG NUMBER: GWS-SA4B-740-U-T3R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1	2375.1
2.5°	2392.8	2386.6	2417.7	2441.6	2451.9	2462.3	2453.0	2449.9	2449.9	2429.1	2418.7
5°	2418.7	2421.8	2464.4	2484.1	2484.1	2475.8	2450.9	2433.3	2427.0	2400.0	2392.8
7.5°	2467.5	2481.0	2520.4	2519.4	2490.3	2444.7	2382.4	2334.7	2291.1	2272.4	2261.0
10°	2547.4	2565.0	2592.0	2548.4	2467.5	2347.1	2215.4	2111.6	2049.3	1999.5	1999.5
12.5°	2638.7	2655.3	2650.1	2549.5	2382.4	2157.2	1967.4	1848.0	1760.9	1715.2	1715.2
15°	2730.0	2743.5	2687.5	2501.7	2205.0	1905.1	1697.6	1554.4	1478.6	1436.1	1436.1
17.5°	2822.4	2821.3	2703.0	2391.7	1973.6	1626.0	1422.6	1311.6	1285.6	1278.4	1277.3
20°	2911.6	2887.7	2683.3	2208.1	1704.8	1344.8	1216.1	1223.4	1261.8	1278.4	1280.4
22.5°	3012.3	2953.1	2625.2	1973.6	1399.8	1149.7	1158.0	1218.2	1274.2	1299.1	1302.2
25°	3115.0	3009.1	2527.7	1698.6	1144.5	1078.1	1142.4	1209.9	1273.2	1305.3	1308.5
27.5°	3156.5	3009.1	2361.7	1380.1	1008.6	1048.0	1118.6	1183.9	1250.4	1287.7	1295.0
30°	3190.7	2983.2	2129.2	1092.6	952.5	1019.0	1080.2	1140.4	1205.7	1251.4	1259.7
32.5°	3238.5	2960.4	1848.0	918.3	926.6	990.9	1033.5	1084.3	1143.5	1173.6	1170.5
35°	3294.5	2925.1	1508.7	835.3	904.8	967.1	997.2	1027.3	1000.3	999.2	1002.4
37.5°	3374.4	2894.0	1213.0	797.9	890.3	950.5	975.4	911.0	873.7	858.1	851.9
40°	3489.6	2881.5	956.7	776.2	888.2	949.4	931.8	832.2	781.3	727.4	726.3
42.5°	3634.8	2872.2	790.7	765.8	895.5	973.3	871.6	780.3	675.5	651.6	649.6
45°	3821.6	2857.6	707.7	763.7	913.1	992.0	865.4	708.7	637.1	626.7	626.7
47.5°	4046.8	2834.8	670.3	763.7	932.8	983.7	846.7	693.1	619.5	630.9	638.1
50°	4305.1	2805.8	650.6	761.6	952.5	983.7	807.3	690.0	615.3	674.5	698.3
52.5°	4581.2	2772.6	637.1	753.3	966.0	984.7	809.4	700.4	619.5	684.8	704.6
55°	4886.2	2767.4	618.4	735.7	970.2	957.7	814.5	723.2	625.7	620.5	621.5
57.5°	5271.2	2829.6	604.9	709.7	953.6	902.7	824.9	739.8	618.4	619.5	626.7
60°	5673.8	2946.9	616.4	684.8	919.3	850.9	832.2	731.5	583.2	566.5	568.6
62.5°	6016.2	3036.1	625.7	673.4	869.5	805.2	824.9	712.9	563.4	559.3	568.6
65°	6159.4	2962.4	602.9	649.6	796.9	749.2	809.4	689.0	546.8	531.3	532.3
67.5°	6000.6	2616.9	558.2	596.6	714.9	677.6	784.5	657.9	524.0	505.3	501.2
70°	5125.9	1922.7	481.5	512.6	615.3	593.5	746.1	617.4	487.7	474.2	464.9
72.5°	4130.8	1361.4	399.5	407.8	482.5	500.1	679.7	566.5	446.2	407.8	394.3
75°	2875.3	855.0	333.1	324.8	348.6	381.8	530.2	470.0	385.0	344.5	332.0
77.5°	1236.9	438.9	260.4	256.3	232.4	264.6	406.8	392.2	322.7	276.0	268.7
80°	414.0	254.2	187.8	180.5	154.6	185.7	286.4	313.4	253.2	204.4	192.0
82.5°	207.5	147.3	119.3	107.9	103.8	117.3	169.1	195.1	175.4	141.1	119.3
85°	101.7	84.0	65.4	64.3	54.0	50.8	70.6	83.0	78.9	58.1	55.0
87.5°	37.4	33.2	20.8	16.6	10.4	7.3	4.2	4.2	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)